

## ABSTRACT OF THE DISCLOSURE

The present invention is an improved compact load cell, which is used on large vehicles and yet is easy to manufacture. The load cell comprises two rings having at least three tubes extending from the first ring to the second ring. Sensors are mounted on the tubes to measure strain of the load cell body in a plurality of directions. The load cell can further be mounted on a vehicle spindle to measure forces and moments of a wheel assembly at the spindle as a vehicle is operated.